



# SPEware uSPE (ultraSPE) Faster / Cleaner Sample Preparation

## Amphetamines from Saliva

For GC or GC-MS confirmations using:  
Trace-B 35mg.

### 1. PREPARE SAMPLE

To 0.3 ml of saliva add internal standards(s) and 1ml of 100mM phosphate buffer (pH6.0). Mix/Vortex.  
(Centrifuge sample for 2 minutes if cloudy.)

### 2. APPLY SAMPLE

Wash Trace-B column with 2ml methanol followed by 1ml H<sub>2</sub>O. Transfer the supernatant into the Trace column and flow through the column at a flow rate of 1.0-2.0ml/minute.

### 3. WASH COLUMN (All wash steps flow at 2-5 ml/min)

1 ml DI H<sub>2</sub>O  
1 ml 100 mM Acetic Acid  
1 ml CH<sub>3</sub> OH  
1ml Ethyl Acetate  
Dry column (2 min at 25 psi N<sub>2</sub>)

### 4. ELUTE AMPHETAMINES

2.0 ml Ethyl Acetate containing 2% NH<sub>4</sub>OH; collect eluate at 1 to 2 ml/minute.  
NOTE: use 12 x 75 mm test tubes if you use the manifold for evaporation.  
NOTE: Prepare elution solvent daily.

### 5. DRY ELUATE

Evaporate to 50-100 ul at room temp.

### 6. DERIVATIZE

Add 20 ul HFAA allow mixture to stand at room temp for 20 minutes.  
Evaporate to approximately 20-50 ul.  
Add 1ml Hexane and 1ml 50% NH<sub>4</sub>OH (1/1)  
Vortex for 30 sec, Inject 1-3 ul of Hexane layer into GC/MS

### 7. QUANTITATE

Inject 1 to 3 ul sample onto chromatograph.